



CLAIMS

What is claimed is:

Sut /

- 1. An apparatus comprising:
- a processor interface unit; and
- a cache to store information received from a processor coupled to the processor
- 4 interface unit, the cache to store disposable information.
- 1 2. The apparatus of claim 1, the cache to further store non-disposable
- 2 information.
- 1 3. The apparatus of claim 2, further comprising a cache management unit to
- 2 determine whether a cache entry contains disposable information.
- 1 4. The apparatus of claim 3, further comprising a bus interface unit to allow a
- 2 device coupled to the bus interface unit to access the cache.
- The apparatus of claim 4, the cache management unit to allow the cache
- 2 entry to be overwritten if the device coupled to the bus interface unit reads the cache entry
- 3 and if the cache management logic determines that the cache entry contains disposable
- 4 information.
- 1 6. The apparatus of claim 5, further comprising a system memory controller.

1	7. The apparatus of claim o, the cache management unit to cause the cache
2	entry contents to be delivered to the system memory controller for delivery to a system
3	memory if the cache management unit determines that the cache entry does not contain
4	disposable information.
1	8. The apparatus of claim 7, the processor interface unit to receive a
2	disposable information attribute indication from the processor when the processor
3	delivers disposable information to the processor interface unit.
1	9. The apparatus of claim 7, the cache management unit to determine
2	whether the cache entry contains disposable data by comparing the cache entry address
3	with a range of addresses that define a disposable information address space.
1	10. The apparatus of claim 9, further comprising at least one programmable
2	register to store addresses that define a disposable address space.
1	11. A system, comprising:
2	a processor; and
3	a system logic device coupled to the processor, the system logic device including
4	a processor interface unit, and

5

6

a cache to store information received from a processor coupled to the

processor interface unit, the cache to store disposable information.

12. The system of claim 11, the cache to further store non-disposable 1 2 information. 13. The system of claim 12, the system logic device further including a cache 1 management unit to determine whether a cache entry contains disposable information. 2 1 14. The system of claim 13, the system logic device further including a bus 2 interface unit. 1 15. The system of claim 14, further comprising a device coupled to the system 2 logic device bus interface unit. 1 16. The system of claim 15, the cache management unit to allow the cache 2 entry to be overwritten if the device coupled to the bus interface unit reads the cache entry and if the cache management logic determines that the cache entry contains disposable 3 information. 4 The system of claim 16, the system logic device further including a system 1 17. 2 memory controller. The system of claim 17, further comprising a system memory coupled to 1 18.

the system memory controller.

2

2

3

2

1	19. The system of claim 18, the cache management unit to cause the cache
2	entry contents to be delivered to the system memory controller for delivery to the system
3	memory if the cache management unit determines that the cache entry does not contain
4	disposable information.
1	20. The system of claim 19, the processor interface unit to receive a disposable

The system of claim 19, the cache management unit to determine whether

the cache entry contains disposable data by comparing the cache entry address with a

information attribute indication from the processor when the processor delivers

3 range of addresses that define a disposable information address space.

disposable information to the processor interface unit.

- 1 22. The system of claim 21, the system logic device further including at least 2 one programmable register to store addresses that define a disposable address space.
- 1 23. A method, comprising:
- 2 receiving a line of information from a processor;
- 3 storing the line of information in a cache;
- determining whether the line of information is disposable; and
- writing the line of information to a system memory if the information is not
- 6 disposable.

- 1 24. The method of claim 23, further comprising allowing the line of
- 2 information to be overwritten without first writing the line of information to the system
- 3 memory if the line of information is disposable and if the line of information has been
- 4 read by a system device.
- 1 25. The method of claim 24, wherein determining whether the line of
- information is disposable includes examining an attribute communicated along with the
 - 3 line of information by the processor.
 - 1 26. The method of claim 24, wherein determining whether the line of
 - 2 information is disposable includes comparing the address of the line of information with a
 - 3 range of addresses that defines a disposable information address space.

or co